

Author Index

- Adesina, A.A., Hudgins, R.R. and Silveston, P.L.
Effect of ethene addition during the Fischer-Tropsch reaction 295
- Akolekar, D.B., see Choudhary, V.R. 171
- Anders, G., Burkhardt, I., Illgen, U., Schulz, I.W. and Scheve, J.
The influence of HZSM-5 zeolite on the product composition after cracking of high boiling hydrocarbon fractions 271
- Arcoya, A., Seoane, X.L., Figoli, N.S. and L'Argentiere, P.C.
Relationship between sulphur resistance and electronic state of the metal on supported palladium catalysts 35
- L'Argentiere, P.C., see Arcoya, A. 35
- Au, C.T., see Zhao-Long Zhang L29
- Balakrishnan, I. and Prasad, S.
Synthesis of AlPO₄-11 using long-chain secondary amines L6
- Bandiera, J. and Ben Taarit, Y.
Catalytic investigation of the dehydrogenation properties of pentasil type zeolites as compared with their cracking properties 309
- Bartholomew, C.H., see Wang, C. 221
- Bastein, A.G.T.M., see Nonneman, L.E.Y. L23
- Baumann, F.W., see Müller, A. L11
- Ben Taarit, Y. 309
- Bhargava, S., see Ekstrom, A. 253
- Boskovic, G., see Ollendorff, R.L. 85
- Branding, A., see Müller, A. L11
- Breyse, M., see Müller, A. L11
- Burch, R., see Nonneman, L.E.Y. L23
- Burgoyne, W.F., see Dixon, D.D. 161
- Burkhardt, I., see Anders, G. 271
- Butt, J.G., see Ollendorff, R.L. 85
- Cant, N.W., see Yong, Y.-S. 189
- Chen, H., see Sajkowski, D.J. 205
- Chocron, S. and Michman, M.
Oxidation of 2-methylnaphthalene to 2-methyl-1,4-naphthaquinone with ammonium dichromate catalysed by RuCl₃ 119
- Choudhary, V.R., Rajput, A.M., Akolekar, D.B. and Seleznev, V.A.
Oxidative conversion of methane to C₂-hydrocarbons over lithium, manganese, cadmium and zinc promoted MgO catalysts. I. Catalyst performance in presence of free oxygen 171
- Coq, B., Pardillos, J. and Figueras, F.
Isomerization of o-dichlorobenzene over zeolites. Effect of the zeolite structure 281
- Diemann, E., see Müller, A. L11
- Dissanayake, W.D.D.P., see Ileperuma, O.A. L1
- Dixon, D.D. and Burgoyne, W.F.
Synthesis of N-tert-butyl aromatic amines via heterogeneous acid catalysis 161
- Ekstrom, A., Regtop, R. and Bhargava, S.
Effect of pressure on the oxidative coupling reaction of methane 253
- Eliyas, A. and Petrov, L.
Modelling of the inhibiting effect of carbon dioxide on the selective oxidation of ethene over silver catalyst 11
- Ewald, H., see Henrion, A. 23
- Fazzini, D.R., see Sajkowski, D.J. 205
- Figoli, N.S., see Arcoya, A.
- Figueras, F., see Coq, B. 281
- Gill, R.C., see Ozkan, U.S. 105
- Hakze Chon, see Sung Hwa Jhung 61
- Henrion, A., Ewald, H., Niessner, H. and Zimmermann, T.
Application of chemometric tools to catalysis. Carbon monoxide hydrogenation on a multi-promoted Rh/SiO₂ catalyst 23
- Hudgins, R.R., see Adesina, A.A. 295
- Ileperuma, O.A., Tennakone, K. and Dissanayake, W.D.D.P.
Photocatalytic behaviour of metal doped titanium dioxide. Studies on the photochemical synthesis of ammonia on Mg/TiO₂ catalyst systems L1
- Illgen, U., see Anders, G. 271
- Imai, H., Tagawa, T. and Nakamura, K.
Catalytic activities of hydrogen storage alloys for decomposition of alcohols 348
- Jablonski, E.L., see Pieck, C.L. 47

- KJaluschnaya, L., see Rama Rao, K.S. L19
- Kanai, J. and Kawata, N.
Coke formation and ageing of galloaluminosilicate (ZSM-5 type zeolite) 141
- Kanta Rao, P., see Rama Rao, K.S. L19
- Kawata, N., see Kanai, J. 141
- Lund, C.R.F., see Yarlagadda, P. 125
- Mashtan, S.K., see Rama Rao, K.S. L19
- Michman, M., see Chocron, S. 119
- Miller, J.T., see Sajkowski, D.J. 205
- Morrison, T.I., see Sajkowski, D.J. 205
- Müller, A., Diemann, E., Branding, A., Baumann, F.W., Breyse, M. and Vrinat, M.
New method for the preparation of hydrodesulphurization catalysts: Use of the molybdenum sulphur cluster compound $(\text{NH}_4)_2[\text{Mo}_3^{\text{IV}}\text{S}_{13}]$ L13
- Nakamura, K., see Imai, H. 348
- Niessner, H., see Henrion, A. 23
- Nonneman, L.E.Y., Bastein, A.G.T.M., Ponec, V. and Burch, R.
Role of impurities in the enhancement of C_2 -oxygenates activity. Supported rhodium catalysts L23
- Nozaki, G., see Sato, S. 73
- Ollendorff, R.L., Boskovic, G. and Butt, J.G.
Platinum/alumina. III. Influence of chloride on methylcyclopropane hydrogenolysis at moderate temperatures 85
- Ozkan, U.S., Gill, R.C. and Smith, M.R.
Synergy in $\text{CdMoO}_4/\text{MoO}_3$ catalysts in partial oxidation reactions of C_4 hydrocarbons 105
- Pardillos, J., see Coq, B. 281
- Parera, J.M., see Pieck, C.L. 47
- Petró, J., see Polyanszky, E. 335
- Petrov, L., see Eliyas, A. 11
- Pieck, C.L., Jablonski, E.L. and Parera, J.M.
Sintering-redispersion of $\text{Pt}-\text{Re}/\text{Al}_2\text{O}_3$ during regeneration 47
- Pitchon, V., Primet, M. and Praliaud, H.
Alkali addition to silica-supported palladium: Infrared investigation of the carbon monoxide chemisorption 317
- Polyanszky, E. and Petró, J.
Relationship between selectivity and hydrogen sorption of carbon-supported palladium catalysts 335
- Ponec, V., see Nonneman, L.E.Y. L23
- Praliaud, H., see Pitchon, V. 317
- Prasad, S., see Balakrishnan, I. L6
- Primet, M., see Pitchon, V. 317
- Rajput, A.M., see Choudhary, V.R. 171
- Rama Rao, K.S., Kanta Rao, P., Mashtan, S.K., Kaluschnaya, L. and Shur, V.B.
New type of carbon coated alumina supports for the preparation of highly active ruthenium catalysts for ammonia synthesis L19
- Regtop, R., see Ekstrom, A. 253
- Ruckenstein, E., see Yarlagadda, P. 125
- Sajkowski, D.J., Miller, J.T., Zajac, G.W., Morrison, T.I., Chen, H. and Fazzini, D.R.
Phosphorus promotion of $\text{Mo}/\text{Al}_2\text{O}_3$ hydrotreating catalysts 205
- Sato, S., Toita, M., Sodesawa, T. and Nozaki, G.
Catalytic and acidic properties of silica-alumina prepared by chemical vapour deposition 73
- Scheve, J., see Anders, G. 271
- Scholten, J.J.F., see Struyk, J. 151
- Schulz, I.W., see Anders, G. 271
- Seleznev, V.A., see Choudhary, V.R. 171
- Seoane, X.L., see Arcoya, A. 35
- Shur, V.B., see Rama Rao, K.S. L19
- Silveston, P.L., see Adesina, A.A.
- Smith, M.R., see Ozkan, U.S. 105
- Sodesawa, T., see Sato, S. 73
- Struyk, J. and Scholten, J.J.F.
Selectivity to cyclohexene in the gas phase hydrogenation of benzene over ruthenium, as influenced by reaction modifiers. III. FT-IR study of the interaction between the reaction modifiers and cyclohexene 151
- Sung Hwa Jung, Young Sun Uh and Hakze Chon
Synthesis and characterization of the vanadium-incorporated molecular sieve VAPO-5 61
- Tagawa, T., see Imai, H. 348
- Teichner, S.J.
Recent studies in hydrogen and oxygen spillover and their impact on catalysis — a review 1

Tennakone, K., see Ileperuma, O.A. L1

Toita, M., see Sato, S. 73

Tsai, K.R., see Zhao-Long Zhang L29

Vrinat, M., see Müller, A. L13

Wang, C. and Bartholomew, C.H.

Preparation and adsorption, chemical and catalytic properties of iron boride Fischer-Tropsch catalysts 221

Yarlagadda, P., Lund, C.R.F. and Ruckenstein, E.

Oligomerization of ethene and propene over composite zeolite catalysts 125

Yong, Y.-S. and Cant, N.W.

Ethene epoxidation over silver catalysts in the presence of carbon monoxide and hydrogen 189

Young Sun Uh, see Sung Hwa Jung 61

Zajac, G.W., see Sajkowski, D.J. 205

Zhang, Z.-L., Au, C.T. and Tsai, K.R.

Methane oxidative coupling to C₂ hydrocarbons over lanthanum promoted barium catalysts L29

Zimmermann, T., see Henrion, A. 23

Subject Index

Acetaldehyde

- Catalytic activities of hydrogen storage alloys for decomposition of alcohols 348

Acid sites

- Catalytic investigation of the dehydrogenation properties of pentasil type zeolites as compared with their cracking properties 309

Acid sites

- Synthesis of N-tert-butyl aromatic amines via heterogeneous acid catalysis 161

Acid sites

- Catalytic and acidic properties of silica-alumina prepared by chemical vapour deposition 73

Acid sites

- Oligomerization of ethene and propene over composite zeolite catalysts 125

Acidity

- Isomerization of o-dichlorobenzene over zeolites. Effect of the zeolite structure 281

Adsorption

- Synthesis and characterization of the vanadium-incorporated molecular sieve VAPO-5 61

Alcohol decomposition

- Catalytic activities of hydrogen storage alloys for decomposition of alcohols 348

Alcohols-alkene interaction

- Selectivity to cyclohexene in the gas phase hydrogenation of benzene over ruthenium, as influenced by reaction modifiers. III. FT-IR study of the interaction between the reaction modifiers and cyclohexene 151

Alkali addition

- Alkali addition to silica-supported palladium: Infrared investigation of the carbon monoxide chemisorption 317

Alumina

- New type of carbon coated alumina supports for the preparation of highly active ruthenium catalysts for ammonia synthesis L19

Ammonia synthesis

- New type of carbon coated alumina supports for the preparation of highly active ruthenium catalysts for ammonia synthesis L19

Ammonia synthesis

- Photocatalytic behaviour of metal doped titanium dioxide. Studies on the photochemical

- synthesis of ammonia on Mg/TiO₂ catalyst systems L1

Ammonium dichromate

- Oxidation of 2-methylnaphthalene to 2-methyl-1,4-naphthaquinone with ammonium dichromate catalysed by RuCl₃ 129

Aromatics

- The influence of HZSM-5 zeolite on the product composition after cracking of high boiling hydrocarbon fractions 271

Blank reactor studies

- Effect of pressure on the oxidative coupling reaction of methane 253

Butane

- Relationship between sulphur resistance and electronic state of the metal on supported palladium catalysts 35

Butanol dehydration

- Catalytic and acidic properties of silica-alumina prepared by chemical vapour deposition 73

Butyl aromatic amines (N-tert.-)

- Synthesis of N-tert-butyl aromatic amines via heterogeneous acid catalysis 161

Cadmium

- Oxidative conversion of methane to C₂-hydrocarbons over lithium, manganese, cadmium and zinc promoted MgO catalysts. I. Catalyst performance in presence of free oxygen 171

Cadmium-molybdenum oxide

- Synergy in CdMoO₄/MoO₃ catalysts in partial oxidation reactions of C₄ hydrocarbons 105

Calcium-nickel

- Catalytic activities of hydrogen storage alloys for decomposition of alcohols 348

Caprolactam

- Selectivity to cyclohexene in the gas phase hydrogenation of benzene over ruthenium, as influenced by reaction modifiers. III. FT-IR study of the interaction between the reaction modifiers and cyclohexene 151

Carbon coating

- New type of carbon coated alumina supports for the preparation of highly active ruthenium catalysts for ammonia synthesis L19

Carbon dioxide

Modelling of the inhibiting effect of carbon dioxide on the selective oxidation of ethene over silver catalyst 11

Carbon monoxide adsorption

Alkali addition to silica-supported palladium: Infrared investigation of the carbon monoxide chemisorption 317

Carbon monoxide hydrogenation

Application of chemometric tools to catalysis. Carbon monoxide hydrogenation on a multi-promoted Rh/SiO₂ catalyst 23

Catalyst characterization (adsorption, Mössbauer spectroscopy, XRD)

Preparation and adsorption, chemical and catalytic properties of iron boride Fischer-Tropsch catalysts 221

Catalyst characterization (BET, LRS, SEM, XRD)

Synergy in CdMoO₄/MoO₃ catalysts in partial oxidation reactions of C₄ hydrocarbons 105

Catalyst characterization (chemometrics)

Application of chemometric tools to catalysis. Carbon monoxide hydrogenation on a multi-promoted Rh/SiO₂ catalyst 23

Catalyst characterization (ESR, Raman, XPS),

Methane oxidative coupling to C₂ hydrocarbons over lanthanum promoted barium catalysts

Zhao-Long Zhang, C.T. Au and K.R. Tsai (Bochum, F.R.G.) L29

Catalyst characterization (IR)

Selectivity to cyclohexene in the gas phase hydrogenation of benzene over ruthenium, as influenced by reaction modifiers. III. FT-IR study of the interaction between the reaction modifiers and cyclohexene 151

Catalyst characterization (NMR, XRD)

Synthesis of AlPO₄-11 using long-chain secondary amines L7

Catalyst characterization (NMR, XRD)

Synthesis of AlPO₄-11 using long-chain secondary amines L7

Catalyst characterization (pulse flow, TPR, XPS)

Relationship between sulphur resistance and electronic state of the metal on supported palladium catalysts 35

Catalyst characterization (spectroscopy, TEM, XPS, TPR, TPD)

Phosphorus promotion of Mo/Al₂O₃ hydro-treating catalysts 205

Catalyst characterization (TPD)

Coke formation and ageing of galloaluminosilicate (ZSM-5 type zeolite) 141

Catalyst characterization (XRD, single-point BET method)

Oxidative conversion of methane to C₂-hydrocarbons over lithium, manganese, cadmium and zinc promoted MgO catalysts. I. Catalyst performance in presence of free oxygen 171

Catalyst characterization (XRD, XPS, TGA, EPR)

Synthesis and characterization of the vanadium-incorporated molecular sieve VAPO-5 61

Catalyst preparation (complex impregnation)

New method for the preparation of hydrodesulphurization catalysts: Use of the molybdenum sulphur cluster compound (NH₄)₂[Mo₃^{IV}S₁₃] L13

Catalyst preparation (coprecipitation, impregnation)

Oxidative conversion of methane to C₂-hydrocarbons over lithium, manganese, cadmium and zinc promoted MgO catalysts. I. Catalyst performance in presence of free oxygen 171

Catalyst preparation (crystallization)

Synthesis and characterization of the vanadium-incorporated molecular sieve VAPO-5 61

Catalyst preparation (impregnation, pyrolysis)

New type of carbon coated alumina supports for the preparation of highly active ruthenium catalysts for ammonia synthesis L19

Catalyst preparation (impregnation)

Phosphorus promotion of Mo/Al₂O₃ hydro-treating catalysts 205

Catalyst preparation (incipient wetness)

Relationship between sulphur resistance and electronic state of the metal on supported palladium catalysts 35

Catalyst preparation (metal doping)

Photocatalytic behaviour of metal doped titanium dioxide. Studies on the photochemical synthesis of ammonia on Mg/TiO₂ catalyst systems L1

Catalyst preparation (reduction)

Preparation and adsorption, chemical and catalytic properties of iron boride Fischer-Tropsch catalysts 221

Catalyst preparation (templating)

Synthesis of $\text{AlPO}_4\text{-11}$ using long-chain secondary amines L7

Catalyst preparation (vapour deposition)

Catalytic and acidic properties of silica-alumina prepared by chemical vapour deposition 73

Catalyst preparation (wet impregnation)

Methane oxidative coupling to C_2 hydrocarbons over lanthanum promoted barium catalysts

Zhao-Long Zhang, C.T. Au and K.R. Tsai (Bochum, F.R.G.) L29

Catalyst preparation (wet impregnation)

Role of impurities in the enhancement of C_2 -oxygenates activity. Supported rhodium catalysts L23

Chemometrics

Application of chemometric tools to catalysis. Carbon monoxide hydrogenation on a multi-promoted Rh/SiO_2 catalyst 23

Chlorine

Platinum/alumina. III. Influence of chloride on methylcyclopropane hydrogenolysis at moderate temperatures 85

Chlorobenzene isomerization

Isomerization of o-dichlorobenzene over zeolites. Effect of the zeolite structure 281

Cobalt oxide/kieselguhr

Effect of ethene addition during the Fischer-Tropsch reaction 295

Coke ageing

Coke formation and ageing of galloaluminosilicate (ZSM-5 type zeolite) 141

Coke formation

Coke formation and ageing of galloaluminosilicate (ZSM-5 type zeolite) 141

Coke formation

Isomerization of o-dichlorobenzene over zeolites. Effect of the zeolite structure 281

Coke formation

Sintering-redispersion of $\text{Pt-Re/Al}_2\text{O}_3$ during regeneration 47

Cracking catalysts

The influence of HZSM-5 zeolite on the product composition after cracking of high boiling hydrocarbon fractions 271

Cracking catalysts

Catalytic investigation of the dehydrogenation properties of pentasil type zeolites as compared with their cracking properties 309

Cumene cracking

Catalytic and acidic properties of silica-alumina prepared by chemical vapour deposition 73

Cyclohexene hydrogenation

Selectivity to cyclohexene in the gas phase hydrogenation of benzene over ruthenium, as influenced by reaction modifiers. III. FT-IR study of the interaction between the reaction modifiers and cyclohexene 151

Dehydrogenation

Recent studies in hydrogen and oxygen spillover and their impact on catalysis — a review 1

Ethanol

Selectivity to cyclohexene in the gas phase hydrogenation of benzene over ruthenium, as influenced by reaction modifiers. III. FT-IR study of the interaction between the reaction modifiers and cyclohexene 151

Ethene addition

Effect of ethene addition during the Fischer-Tropsch reaction 295

Ethene epoxidation

Modelling of the inhibiting effect of carbon dioxide on the selective oxidation of ethene over silver catalyst 11

Ethene oligomerization

Oligomerization of ethene and propene over composite zeolite catalysts 125

Propene oligomerization

Oligomerization of ethene and propene over composite zeolite catalysts 125

Ethylbenzene hydrogenation

Relationship between sulphur resistance and electronic state of the metal on supported palladium catalysts 35

Ethylene epoxidation

Ethene epoxidation over silver catalysts in the presence of carbon monoxide and hydrogen 189

Ethylene oxide

Ethene epoxidation over silver catalysts in the presence of carbon monoxide and hydrogen

Fischer-Tropsch synthesis

Effect of ethene addition during the Fischer-Tropsch reaction 295

Fischer-Tropsch synthesis

Preparation and adsorption, chemical and catalytic properties of iron boride Fischer-Tropsch catalysts 221

Formaldehyde

Catalytic activities of hydrogen storage alloys for decomposition of alcohols 348

Gallium-zeolite

Coke formation and ageing of galloaluminosilicate (ZSM-5 type zeolite) 141

Gasoline

The influence of HZSM-5 zeolite on the product composition after cracking of high boiling hydrocarbon fractions 271

Heptane cracking

Catalytic and acidic properties of silica-alumina prepared by chemical vapour deposition 73

Hydroconversion

Recent studies in hydrogen and oxygen spillover and their impact on catalysis — a review 1

Hydrocracking

Recent studies in hydrogen and oxygen spillover and their impact on catalysis — a review 1

Hydrodesulphurization catalysts

New method for the preparation of hydrodesulphurization catalysts: Use of the molybdenum sulphur cluster compound $(\text{NH}_4)_2[\text{Mo}_3^{\text{IV}}\text{S}_{13}]$ L13

Hydrogen spillover

Recent studies in hydrogen and oxygen spillover and their impact on catalysis — a review 1

Hydrogen storage alloys

Catalytic activities of hydrogen storage alloys for decomposition of alcohols 348

Hydrogenation

Recent studies in hydrogen and oxygen spillover and their impact on catalysis — a review 1

Impurities

Role of impurities in the enhancement of C_2 -oxygenates activity. Supported rhodium catalysts L23

Infrared spectroscopy

Alkali addition to silica-supported palladium: Infrared investigation of the carbon monoxide chemisorption 317

Iron boride

Preparation and adsorption, chemical and catalytic properties of iron boride Fischer-Tropsch catalysts 221

Iron-manganese-titanium

Catalytic activities of hydrogen storage alloys for decomposition of alcohols 348

Iron-titanium

Catalytic activities of hydrogen storage alloys for decomposition of alcohols 348

Kinetics

Modelling of the inhibiting effect of carbon dioxide on the selective oxidation of ethene over silver catalyst 11

Kinetics

Catalytic investigation of the dehydrogenation properties of pentasil type zeolites as compared with their cracking properties 309

Lanthanum oxide/barium carbonate

Methane oxidative coupling to C_2 hydrocarbons over lanthanum promoted barium catalysts

Zhao-Long Zhang, C.T. Au and K.R. Tsai (Bochum, F.R.G.) L29

Lithium

Oxidative conversion of methane to C_2 -hydrocarbons over lithium, manganese, cadmium and zinc promoted MgO catalysts. I. Catalyst performance in presence of free oxygen 171

Long-chain secondary alkyl amines

Synthesis of $\text{AlPO}_4\text{-11}$ using long-chain secondary amines L7

Magnesium copper

Catalytic activities of hydrogen storage alloys for decomposition of alcohols 348

Magnesium oxide

Oxidative conversion of methane to C_2 -hydrocarbons over lithium, manganese, cadmium

- and zinc promoted MgO catalysts. I. Catalyst performance in presence of free oxygen 171
- Magnesium/titania**
Photocatalytic behaviour of metal doped titanium dioxide. Studies on the photochemical synthesis of ammonia on Mg/TiO₂ catalyst systems L1
- Maleic anhydride**
Synergy in CdMoO₄/MoO₃ catalysts in partial oxidation reactions of C₄ hydrocarbons 105
- Manganese**
Oxidative conversion of methane to C₂-hydrocarbons over lithium, manganese, cadmium and zinc promoted MgO catalysts. I. Catalyst performance in presence of free oxygen 171
- Methane oxidative coupling**
Oxidative conversion of methane to C₂-hydrocarbons over lithium, manganese, cadmium and zinc promoted MgO catalysts. I. Catalyst performance in presence of free oxygen 171
- Methane oxidative coupling**
Oxidative conversion of methane to C₂-hydrocarbons over lanthanum promoted barium catalysts
Zhao-Long Zhang, C.T. Au and K.R. Tsai (Bochum, F.R.G.) L29
- Methane oxidative coupling**
Effect of pressure on the oxidative coupling reaction of methane 253
- Methanol**
Selectivity to cyclohexene in the gas phase hydrogenation of benzene over ruthenium, as influenced by reaction modifiers. III. FT-IR study of the interaction between the reaction modifiers and cyclohexene 151
- Methylcyclopropane hydrogenolysis**
Platinum/alumina. III. Influence of chloride on methylcyclopropane hydrogenolysis at moderate temperatures 85
- Methylnaphthalene oxidation**
Oxidation of 2-methylnaphthalene to 2-methyl-1,4-naphthaquinone with ammonium dichromate catalysed by RuCl₃ 129
- Molybdenum/Al₂O₃**
Phosphorus promotion of Mo/Al₂O₃ hydrotreating catalysts 205
- Molybdenum oxide**
Synergy in CdMoO₄/MoO₃ catalysts in partial oxidation reactions of C₄ hydrocarbons 105
- Molybdenum-sulphur**
New method for the preparation of hydrodesulphurization catalysts: Use of the molybdenum sulphur cluster compound (NH₄)₂[Mo^{IV}₃S₁₃] L13
- Naphtha (light)**
Coke formation and ageing of galloaluminosilicate (ZSM-5 type zeolite) 141
- Naphtha reforming**
Sintering-redispersion of Pt-Re/Al₂O₃ during regeneration 47
- Oxidation**
Recent studies in hydrogen and oxygen spillover and their impact on catalysis — a review 1
- Oxygen spillover**
Recent studies in hydrogen and oxygen spillover and their impact on catalysis — a review 1
- Oxygenates**
Role of impurities in the enhancement of C₂-oxygenates activity. Supported rhodium cata-20H catalysts L23
- Palladium/silica**
Alkali addition to silica-supported palladium: Infrared investigation of the carbon monoxide chemisorption 317
- Palladium/silica**
Relationship between sulphur resistance and electronic state of the metal on supported palladium catalysts 35
- Phosphorus**
Phosphorus promotion of Mo/Al₂O₃ hydrotreating catalysts 205
- Photocatalysis**
Photocatalytic behaviour of metal doped titanium dioxide. Studies on the photochemical synthesis of ammonia on Mg/TiO₂ catalyst systems L1
- Platinum/alumina**
Platinum/alumina. III. Influence of chloride on methylcyclopropane hydrogenolysis at moderate temperatures 85
- Platinum-rhenium/alumina**
Sintering-redispersion of Pt-Re/Al₂O₃ during regeneration 47

Pressure effect

Effect of pressure on the oxidative coupling reaction of methane 253

Regeneration

Sintering-redispersion of Pt-Re/Al₂O₃ during regeneration 47

Rhodium/silica

Application of chemometric tools to catalysis. Carbon monoxide hydrogenation on a multi-promoted Rh/SiO₂ catalyst 23

Rhodium/silica

Role of impurities in the enhancement of C₂-oxygenates activity. Supported rhodium catalysts L23

Ruthenium

Selectivity to cyclohexene in the gas phase hydrogenation of benzene over ruthenium, as influenced by reaction modifiers. III. FT-IR study of the interaction between the reaction modifiers and cyclohexene 151

Ruthenium/alumina

New type of carbon coated alumina supports for the preparation of highly active ruthenium catalysts for ammonia synthesis L19

Ruthenium trichloride

Oxidation of 2-methylnaphthalene to 2-methyl-1,4-naphthaquinone with ammonium dichromate catalysed by RuCl₃ 129

Selectivity (alkenes)

Preparation and adsorption, chemical and catalytic properties of iron boride Fischer-Tropsch catalysts 221

Selectivity (alkenes)

Oligomerization of ethene and propene over composite zeolite catalysts 125

Selectivity (C₂+ hydrocarbons)

Effect of pressure on the oxidative coupling reaction of methane 253

Selectivity (C₂ hydrocarbons)

Methane oxidative coupling to C₂ hydrocarbons over lanthanum promoted barium catalysts

Zhao-Long Zhang, C.T. Au and K.R. Tsai (Bochum, F.R.G.) L29

Selectivity (C₂-hydrocarbons)

Oxidative conversion of methane to C₂-hydrocarbons over lithium, manganese, cadmium

and zinc promoted MgO catalysts. I. Catalyst performance in presence of free oxygen 171

Selectivity (ethanol)

Application of chemometric tools to catalysis. Carbon monoxide hydrogenation on a multi-promoted Rh/SiO₂ catalyst 23

Selectivity (ethylene oxide)

Ethene epoxidation over silver catalysts in the presence of carbon monoxide and hydrogen 189

Selectivity (higher hydrocarbons)

Effect of ethene addition during the Fischer-Tropsch reaction 295

Selectivity (isobutane)

Platinum/alumina. III. Influence of chloride on methylcyclopropane hydrogenolysis at moderate temperatures 85

Selectivity (maleic anhydride)

Synergy in CdMoO₄/MoO₃ catalysts in partial oxidation reactions of C₄ hydrocarbons 105

Selectivity (N-alkylation)

Synthesis of N-tert-butyl aromatic amines via heterogeneous acid catalysis 161

Selectivity (oxirane)

Modelling of the inhibiting effect of carbon dioxide on the selective oxidation of ethene over silver catalyst 11

Silica-alumina

Catalytic and acidic properties of silica-alumina prepared by chemical vapour deposition 73

Silica-alumina

Oligomerization of ethene and propene over composite zeolite catalysts 125

Silicon-to-aluminium ratio

Isomerization of o-dichlorobenzene over zeolites. Effect of the zeolite structure 281

Silver

Ethene epoxidation over silver catalysts in the presence of carbon monoxide and hydrogen 189

Silver/alumina

Modelling of the inhibiting effect of carbon dioxide on the selective oxidation of ethene over silver catalyst 11

Sintering

Sintering-redispersion of Pt-Re/Al₂O₃ during regeneration 47

Styrene hydrogenation

Relationship between sulphur resistance and electronic state of the metal on supported palladium catalysts 35

Sulphur-containing compounds

Relationship between sulphur resistance and electronic state of the metal on supported palladium catalysts 35

Syngas conversion

Role of impurities in the enhancement of C₂-oxygenates activity. Supported rhodium catalysts L23

Syngas conversion

Preparation and adsorption, chemical and catalytic properties of iron boride Fischer-Tropsch catalysts 221

Syngas conversion

Alkali addition to silica-supported palladium: Infrared investigation of the carbon monoxide chemisorption 317

Syngas conversion

Application of chemometric tools to catalysis. Carbon monoxide hydrogenation on a multi-promoted Rh/SiO₂ catalyst 23

Syngas conversion

Effect of ethene addition during the Fischer-Tropsch reaction 295

Tetraalkylammonium dichromate

Oxidation of 2-methylnaphthalene to 2-methyl-1,4-naphthaquinone with ammonium dichromate catalysed by RuCl₃ 129

Thiophene

Relationship between sulphur resistance and electronic state of the metal on supported palladium catalysts 35

Trichloroethanol

Selectivity to cyclohexene in the gas phase hydrogenation of benzene over ruthenium, as influenced by reaction modifiers. III. FT-IR study of the interaction between the reaction modifiers and cyclohexene 151

Vanadium reduction

Synthesis and characterization of the vanadium-incorporated molecular sieve VAPO-5

61

Vanadium-aluminophosphate

Synthesis and characterization of the vanadium-incorporated molecular sieve VAPO-5 61

Xylene isomerization

Catalytic and acidic properties of silica-alumina prepared by chemical vapour deposition 73

Zeolite-based hydrocracking catalysts

Recent studies in hydrogen and oxygen spillover and their impact on catalysis — a review 1

Zeolites

Coke formation and ageing of galloaluminosilicate (ZSM-5 type zeolite) 141

Zeolites

Oligomerization of ethene and propene over composite zeolite catalysts 125

Zeolites

Catalytic investigation of the dehydrogenation properties of pentasil type zeolites as compared with their cracking properties 309

Zeolites

Synthesis of AlPO₄-11 using long-chain secondary amines L7

Zeolites

Isomerization of o-dichlorobenzene over zeolites. Effect of the zeolite structure 281

Zeolites

The influence of HZSM-5 zeolite on the product composition after cracking of high boiling hydrocarbon fractions 271

Zeolites

Synthesis of N-tert-butyl aromatic amines via heterogeneous acid catalysis 161

Zinc

Oxidative conversion of methane to C₂-hydrocarbons over lithium, manganese, cadmium and zinc promoted MgO catalysts. I. Catalyst performance in presence of free oxygen 171

Zinc-zeolite

Coke formation and ageing of galloaluminosilicate (ZSM-5 type zeolite) 141

